

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-8 (Cancelled)

Claim 9 (New) A combustor for combusting animal and vegetable oils comprising;

a burner tile,

a burner nozzle,

a means for supplying animal and vegetable oils, through the burner nozzle, into the burner tile in the form of atomized fuel,

a means for introducing a straight-line air current into the burner tile, which straightly flows in the vicinity of the burner nozzle toward the opening of the burner tile by operation of one blower, and

a means for forming the field of centrifugal force surrounding the straight-line air current within the burner tile by the effect of the turning air current, which is introduced into the burner tile from an opening end connected substantially tangential to the inner surface of the sidewall of the burner tile by operation of the other blower,

whereby the fuel droplets of the atomized fuel are separated and take various orbits in line with the masses within the field of the centrifugal force and combusted.

Claim 10 (New) The combustor according to claim 9, wherein the means for supplying animal and vegetable oils is arranged to deliver the atomized fuel toward the axially central area of the turning air current.

Claim 11 (New) The combustor according to claim 9, further comprising a means for adjusting the mass of the fuel droplets to be atomized, whereby the delivered and separated by the central force effect, atomized fuel are prevented from contacting with the inner surface of the burner tile.

Claim 12 (New) The combustor according to claim 9, wherein the burner tile is of a cylindrical configuration.

Claim 13 (New) The combustor according to claim 9, further comprising a means for adjusting the position of the ignition flame in the central area of the burner tile.

Claim 14 (New) The combustor according to claim 9, further comprising a means for adjusting the pressure and the flow rate of the straight-line air current relative to the turning air current.

Claim 15 (New) The combustor according to claim 9, further comprising an ignition burner capable of providing sufficient heat energy for allowing continuous propagation of combustion of the animal and vegetable oils.